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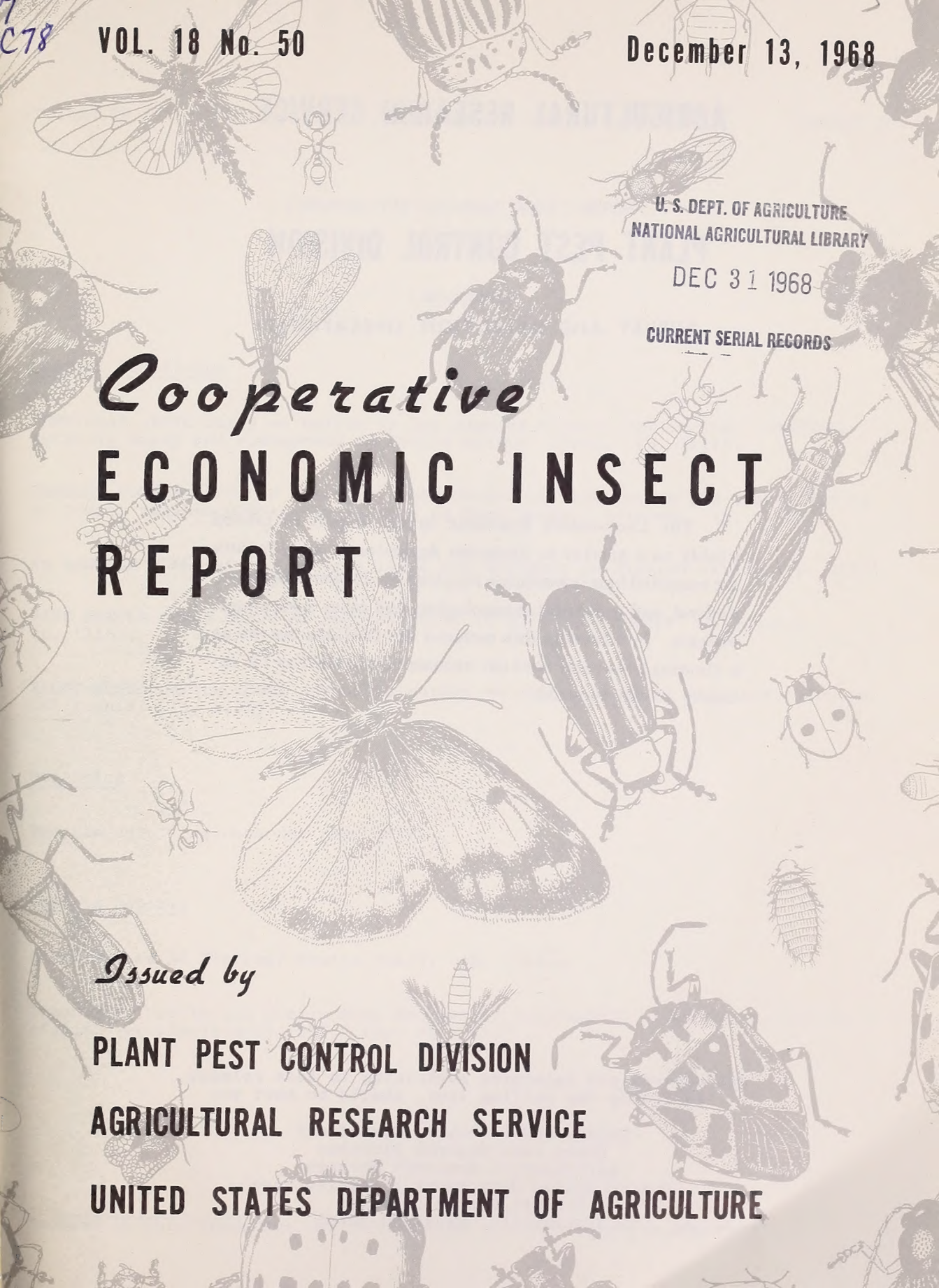
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Cooperative **ECONOMIC INSECT REPORT**

Issued by

PLANT PEST CONTROL DIVISION

AGRICULTURAL RESEARCH SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL RESEARCH SERVICE

PLANT PEST CONTROL DIVISION

SURVEY AND DETECTION OPERATIONS

The Cooperative Economic Insect Report is issued weekly as a service to American Agriculture. Its contents are compiled from information supplied by cooperating State, Federal, and industrial entomologists and other agricultural workers. In releasing this material the Division serves as a clearinghouse and does not assume responsibility for accuracy of the material.

All reports and inquiries pertaining to this release, including the mailing list, should be sent to:

Survey and Detection Operations
Plant Pest Control Division
Agricultural Research Service
United States Department of Agriculture
Federal Center Building
Hyattsville, Maryland 20782

COOPERATIVE ECONOMIC INSECT REPORT

HIGHLIGHTS

Current Conditions

CORN LEAF APHID heavy on barley in Los Angeles County, California. GREENBUG activity heavy and widespread in Motley County, Texas. (p. 1111).

CABBAGE LOOPER heavy on tomatoes, cole crops, and lettuce in Rio Grande Valley of Texas; remains problem on lettuce in Yuma County, Arizona. (p. 1113).

An ARMORED SCALE at record high level for November on Florida citrus. (p. 1114).

PINE NEEDLE SCALE heavy on Jeffrey pines in El Dorado County, California. (p. 1115).

SHORT-NOSED CATTLE LOUSE unusually severe on dairy cattle in Stanislaus County, California. (p. 1115).

Detection

For new county records see page 1117.

Special Reports

Distribution of Elm Leaf Beetle (map). (p. 1118).

Important Insects and Snails Most Frequently Intercepted at United States Ports of Entry in Fiscal Year 1967. (pp. 1119-1134).

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WEATHER OF THE WEEK ENDING DECEMBER 9

HIGHLIGHTS: Winter cold advanced far southward. Subzero cold occurred in New Mexico and hard freezes in Georgia and Florida. Heavy snow fell in the Cascades and in lee of the Great Lakes.

PRECIPITATION: Daily rains along the northwest Pacific coast and snow in the Cascades continued the pattern which has prevailed for several weeks and which normally can be expected to endure until spring. Amounts exceeded 4 inches along the coast, ranged from 2 to 3 inches in the interior valleys, to more than 4 inches on the western slopes of the Cascades, and about 0.5 inch on the eastern slopes. Snow depths reached 48 inches at 3,000 feet and 96 inches at 5,500 feet in the Cascades. Snow or snow flurries continued from the northern Great Plains to New England. By Friday the snow depth at Greenville, Maine, had reached 17 inches. Depths in New York exceeded 20 inches locally in the lee of Lakes Erie and Ontario. Little or no precipitation fell in the Far Southwest and along the western edge of the Great Plains from the Dakotas to the Rio Grande. Only light snow fell in the central and southern Rockies. Light rains fell in the Deep South and much of the East early in the week. Snow flurries accompanied the colder weather in the East from Thursday to Sunday with depths ranging from 10 inches locally in northeastern Ohio to an inch or so in North Carolina.

TEMPERATURE: Subzero temperatures occurred in the central and southern Rocky Mountains early in the week and in the northern Rockies and parts of the northern Great Plains over the weekend. Zuni, New Mexico, registered 8° below zero on Monday morning, December 2, and Bemidji, Minnesota, 17° below zero on Sunday morning, December 8. Subfreezing temperatures advanced far southward into Dixie reaching the Gulf of Mexico Monday morning, December 9, when New Orleans, Louisiana, and Mobile, Alabama, recorded 31° and 28°, respectively. Idaho and nearby parts of neighboring States experienced cold mornings but mild afternoons, averaging slightly above normal. Temperatures averaged below normal elsewhere in the West. The Great Lakes region and the Northeast averaged slightly warmer than normal but below-normal average temperatures were general from the central Great Plains to the gulf and eastward to the Atlantic Ocean due to the cold weather which began about Thursday and intensified to the end of the period. (Summary supplied by Environmental Data Service, ESSA.)

SPECIAL INSECTS OF REGIONAL SIGNIFICANCE

CORN LEAF APHID (*Rhopalosiphum maidis*) - CALIFORNIA - Nymphs and adults heavy on barley plantings at Lancaster, Los Angeles County. (Cal. Coop. Rpt.). ARIZONA - Found on new alfalfa and nurse-crop barley in Yuma Valley, Yuma County. (Ariz. Coop. Sur.). KANSAS - Light, 0-5 per row foot, in wheat examined in Brown, Doniphan, and Atchison Counties. (Simpson).

GREENBUG (*Schizaphis graminum*) - KANSAS - Light, 0-20 per row foot, in wheat in Gray, Meade, Clark, Harper, Barber, Comanche, Sumner, Butler, and Cowley Counties November 16-22. (Redding). Ranged 1-9 per row foot in wheat in Finney County. (DePew). Decreased from high of 85 per row foot 3 weeks ago to 5-20 per row foot in wheat in Doniphan and Atchison Counties. Ranged 1-3 per row foot in all wheat examined in Shawnee, Douglas, Jefferson, and Leavenworth Counties and 1-15 per row foot in wheat in Washington, Republic, Jewell, Smith, Phillips, Rooks, Osborne, Mitchell, and Cloud Counties. Present in all fields examined in north-central district. (Simpson). OKLAHOMA - Ranged 1-2 per row foot in most wheat in southwest, west-central, northwest, and panhandle counties. Counts per row foot ranged 10-15 in Cleo Springs area, Major County; 5-10 in Friendship area, Jackson County; and averaged 5 in Roosevelt area, Kiowa County. Light in wheat in Cleveland County. (Okla. Coop. Sur.). TEXAS - Generally light, up to 10 per row foot, on small grains in widespread areas near Quemado, Maverick County; heavier in some fields. Damaged oats in some areas of Kent County. Ranged 40-200 per row foot on wheat in Knox County; activity heavy and widespread in Motley County. Some controls applied in Knox and Motley Counties. (Tapscott et al.). ARKANSAS - Heavy in oatfield in Prairie County; counts of 10-50 per plant killed areas in field up to one acre. Controls applied. (Barnes). Survey negative in northwest area. (Boyer, Dumas). MARYLAND - Moderate to heavy on rye cover crop throughout Eastern Shore. (U. Md., Ent. Dept.).

SPOTTED ALFALFA APHID (*Therioaphis maculata*) - ARIZONA - Ranged 40-1,320 per 100 sweeps on alfalfa at Yuma, Yuma County. (Ariz. Coop. Sur.). ARKANSAS - Survey continues negative in northwest area. (Boyer).

TOBACCO BUDWORM (*Heliothis virescens*) - CALIFORNIA - Light on geraniums at Encinitas and damaging yard geraniums at Fallbrook, San Diego County. (Cal. Coop. Rpt.).

CORN, SORGHUM, SUGARCANE

EUROPEAN CORN BORER (*Ostrinia nubilalis*) - NEBRASKA - General population increase on corn in State indicated by fall survey in 1968. Increase greatest in southeastern counties. Extremely dry conditions apparently caused slight reduction compared with 1967 in several northeastern counties. (Keith).

SMALL GRAINS

ENGLISH GRAIN APHID (*Macrosiphum avenae*) - OKLAHOMA - Ranged 5-10 per row foot on Kiowa County wheat. (Okla. Coop. Sur.).

HESSIAN FLY (*Mayetiola destructor*) - KANSAS - Detected on one wheat sample in each of Ellsworth, Ness, and Butler Counties; survey negative in 16 other counties. Collected by W. Redding and examined by H.W. Somsen. (Simpson).

WINTER GRAIN MITE (*Penthaleus major*) - CALIFORNIA - Medium on volunteer oats at Clovis, Fresno County. (Cal. Coop. Rpt.).

WHEAT CURL MITE (*Aceria tulipae*) - KANSAS - Detected on 2 wheat samples in Meade County; survey negative in 18 other counties. Collected by W. Redding and examined by H.W. Somsen. (Simpson).

TURF, PASTURES, RANGELAND

APHIDS - CALIFORNIA - Asiphonella dactylonii and Rhopalosiphum sp. medium on hybrid Bermuda grass in nursery at San Gabriel, and heavy at Carson, Los Angeles County. (Cal. Coop. Rpt.).

A SPRINGTAIL (Hypogastrura armata) - CALIFORNIA - Heavy in lawns at Fremont, Alameda County. (Cal. Coop. Rpt.).

FORAGE LEGUMES

EGYPTIAN ALFALFA WEEVIL (Hypera brunneipennis) - ARIZONA - Adults averaged 20 per 100 sweeps in alfalfa in Pinal County. First adult found in alfalfa at Yuma, Yuma County. (Ariz. Coop. Sur.). CALIFORNIA - Larvae, probably this species, medium on alfalfa at Lancaster, Los Angeles County. Activity unusually early; infestations normally appear about February. (Cal. Coop. Rpt.).

ALFALFA WEEVIL (Hypera postica) - INDIANA - Adults averaged 30 per 100 sweeps and eggs 18 per 100 stems in alfalfa in Ripley and Dearborn Counties as of November 15. (Huber, McGroarty).

CLOVER ROOT CURCULIO (Sitona hispidulus) - INDIANA - Adults averaged 14 per 100 sweeps on alfalfa in southeast district. (McGroarty).

SPOTTED CUCUMBER BEETLE (Diabrotica undecimpunctata howardi) - FLORIDA - Adults 16 per 200 sweeps in foot-high alfalfa at Gainesville, Alachua County. (Mead).

CABBAGE LOOPER (Trichoplusia ni) - ARIZONA - Larvae 75 per 100 sweeps in alfalfa in Pinal County. (Ariz. Coop. Sur.).

BEET ARMYWORM (Spodoptera exigua) - ARIZONA - Larvae decreased sharply past 2 weeks; averaged 60 per 100 sweeps in alfalfa at Yuma, Yuma County. (Ariz. Coop. Sur.).

ALFALFA CATERPILLAR (Colias eurytheme) - ARIZONA - Averaged 50 per 100 sweeps in alfalfa at Yuma, Yuma County. (Ariz. Coop. Sur.).

THREE-CORNERED ALFALFA HOPPER (Spissistilus festinus) - ARIZONA - Average per 100 sweeps in alfalfa by county: Pinal 150 and Yuma 30. (Ariz. Coop. Sur.). FLORIDA - Adults 5 per 200 sweeps in foot-high alfalfa at Gainesville, Alachua County. (Mead).

MEADOW SPITTLEBUG (Philaenus spumarius) - INDIANA - Adults averaged 192 per 100 sweeps on alfalfa in southeast district November 15. (McGroarty).

PEA APHID (Acyrtosiphon pisum) - ARIZONA - Averaged 60 per 100 sweeps in alfalfa at Yuma, Yuma County. (Ariz. Coop. Sur.). ARKANSAS - Light, 0-5 per square foot, in alfalfa and vetch in northwest area. (Boyer). FLORIDA - Mostly adults 11 per 200 sweeps in foot-high alfalfa at Gainesville, Alachua County. (Mead).

COWPEA APHID (Aphis craccivora) - ARIZONA - Averaged 60 per 100 sweeps in alfalfa at Yuma, Yuma County. (Ariz. Coop. Sur.).

PLANT BUGS - ARIZONA - Lygus spp. declined to 30 per 100 sweeps in alfalfa at Yuma, Yuma County. Averaged 50 per 100 sweeps in Pinal County. (Ariz. Coop. Sur.). FLORIDA - L. lineolaris adults 13 and Taylorilygus pallidulus adults 20 per 200 sweeps in foot-high alfalfa at Gainesville, Alachua County. (Mead).

A LEAF MINER FLY (Liriomyza trifolii) - ARIZONA - Heavy on young alfalfa at Yuma, Yuma County. (Ariz. Coop. Sur.).

SOYBEANS

A CERAMBYCID BEETLE (Dectes spinosus) - ARKANSAS - Larvae, probably this species, caused loss of 5 bushels per acre due to lodging in Lincoln County. First experience with this type of damage in State. (Boyer).

SUGARBEETS

CABBAGE LOOPER (Trichoplusia ni) - ARIZONA - Averaged 50 per 100 sweeps in Pinal County. (Ariz. Coop. Sur.).

POTATOES, TOMATOES, PEPPERS

CABBAGE LOOPER (Trichoplusia ni) - TEXAS - Heavy on tomatoes in widespread areas of Rio Grande Valley; defoliated tomatoes in some areas. (Schuster).

COLE CROPS

CABBAGE LOOPER (Trichoplusia ni) - TEXAS - Heavy on cole crops in widespread areas of Rio Grande Valley; larvae 1-3 per plant in cabbage. (Schuster).

HARLEQUIN BUG (Murgantia histrionica) - TEXAS - Medium on cole crops near Weslaco, Hidalgo County. (Schuster).

GENERAL VEGETABLES

CABBAGE LOOPER (Trichoplusia ni) - ARIZONA - Full-grown larvae remain problem in lettuce heads ready for harvest at Yuma, Yuma County. (Ariz. Coop. Sur.). TEXAS - Heavy on lettuce in widespread areas of Rio Grande Valley; larvae averaged 0.1 per plant. (Schuster).

GREEN PEACH APHID (Myzus persicae) - ARIZONA - Treatment required in lettuce field at Yuma, Yuma County. (Ariz. Coop. Sur.). MARYLAND - Remains light in 100 acres of beets near Vienna, Dorchester County; light to moderate on 400 acres of spinach. (U. Md., Ent. Dept.).

DECIDUOUS FRUITS AND NUTS

SAN JOSE SCALE (Aspidiotus perniciosus) - CALIFORNIA - Generally heavy on 3-acre cherry planting at Auburn, Placer County. (Cal. Coop. Rpt.).

PECAN CARPENTERWORM (Cossula magnifica) - ALABAMA - Larval damage severe to trunks and limbs of several 5-year-old pecan trees at Houston County home. Determined by D.M. Weisman. (Stephenson).

CITRUS

Citrus Insect Situation in Florida - End of November - CITRUS RUST MITE (Phyllocoptruta oleivora) infested leaves in 64 (norm 71) percent of groves; 42 (norm 47) percent economic. Infested fruit in 71 (norm 68) percent of groves; 52 (norm 47) percent economic. Still in high range and above normal on fruit. Frosty mid-November started downward trend which is expected to continue. About 30 percent of groves will harbor heavy infestations in December and January. Highest districts south, west, and north. TEXAS CITRUS MITE (Eutetranychus banksi) infested 22 (norm 35) percent of groves; 7 (norm 14) percent economic. Increased but still below normal and in low range. Further expected increase will result in scattered heavy infestations. Highest districts central and south. CITRUS RED MITE (Panonychus citri) infested 20 (norm 35) percent of groves;

2 (norm 10) percent economic. Little change expected; very few infestations will be important. Highest district south. GLOVER SCALE (Lepidosaphes gloverii) infested 51 (norm 70) percent of groves; 2 (norm 14) percent economic. Below average and low. Little change expected. Highest districts west and east. PURPLE SCALE (L. beckii) infested 46 (norm 67) percent of groves; less than 1 (norm 7) percent economic. Will remain below normal and low. Highest district east. YELLOW SCALE (Aonidiella citrina) infested 48 (norm 59) percent of groves; less than 1 (norm 10) percent economic. Below normal and low. Slight increase expected. Highest district east. BLACK SCALE (Saissetia oleae) infested 37 (norm 34) percent of groves; 11 (norm 11) percent economic. Slight increase expected from current normal low level. Highest districts east and central. An ARMORED SCALE (Unaspis citri) infested 14 percent of groves; moderate or heavy in 4 percent. At record high level for November. Slight increase expected. Purple scale, FLORIDA RED SCALE (Chrysomphalus aonidum), BROWN SOFT SCALE (Coccus hesperidum), COTTONY-CUSHION SCALE (Icerya purchasi), PYRIFORM SCALE (Protopulvinaria pyriformis), citrus red mite, and grasshoppers at lowest November levels in 18 years of record. (W.A. Simanton (Citrus Expt. Sta., Lake Alfred)).

SOFT SCALES - ARIZONA - Coccus hesperidum (brown soft scale) and Saissetia oleae (black scale) infested citrus at Somerton, Yuma County. (Ariz. Coop. Sur.).

COWPEA APHID (Aphis craccivora) - ARIZONA - Infesting terminals at Yuma, Yuma County. (Ariz. Coop. Sur.).

CITRUS RED MITE (Panonychus citri) - ARIZONA - Despite cooler weather, some groves treated at Yuma, Yuma County. (Ariz. Coop. Sur.).

OTHER TROP. & SUBTROP. FRUITS

AN APHID (Pentalonia nigronervosa) - CALIFORNIA - Local infestation on banana trees at Compton, Los Angeles County. First record for this county. Occurred outdoors in a few locations this summer. (Cal. Coop. Rpt.).

A MEALYBUG (Pseudococcus obscurus) - CALIFORNIA - Medium on avocado trees at Santa Cruz, Santa Cruz County. (Cal. Coop. Rpt.).

PAPAYA FRUIT FLY (Toxotrypana curvicauda) - FLORIDA - Adults collected in McPhail traps at Sebring, Highlands County (Morris, Nov. 6); at Sarasota, Sarasota County (Hiatt, Nov. 27); and at Daytona Beach, Volusia County (Pott, Nov. 27).

ORNAMENTALS

AN ARMORED SCALE (Phenacaspis cockerelli) - FLORIDA - All stages collected on Dipladenia sp. at Naples, Collier County. (Walsh, Crews). This is a new Florida Department of Plant Industry host record. (Fla. Coop. Sur.).

AN ARMORED SCALE (Diaspis boisduvalii) - FLORIDA - Adults infested 125 of 500 orchid plants in nursery at Winter Haven, Polk County. (Schmidt, Nov. 26).

BEE T ARMYWORM (Spodoptera exigua) - CALIFORNIA - Larvae medium, destroying Primula malacoides nursery stock at Auburn, Placer County. (Cal. Coop. Rpt.).

FOREST AND SHADE TREES

SCALES - CALIFORNIA - Phenacaspis pinifoliae (pine needle scale) and Matsucoccus sp. (a margarodid scale) heavy on Jeffrey pines at south Tahoe, El Dorado County. Developed rapidly this season in large local areas on lake shore. Much concern over infestations and needle drop in this extremely high value recreation area. Nuculaspis pini (black pine-leaf scale), Physokermes sp. (a soft scale), and Pineus sp. (a bark aphid) heavy on lodgepole pine in many areas. (Cal. Coop. Rpt.).

ENGRAVER BEETLES (Ips spp.) - MARYLAND - Killed several Virginia pines at Pasadena, Anne Arundel County. (U. Md., Ent. Dept.).

A GALL WASP (Andricus fullawayi) - CALIFORNIA - Pupae medium on leaves of blue oaks at Alpine, San Diego County. (Cal. Coop. Rpt.).

MAN AND ANIMALS

SCREW-WORM (Cochliomyia hominivorax) - Total of 71 cases reported in U.S. December 1-7 as follows: TEXAS - Atascosa 2, Bexar 2, Brooks 1, Cameron 1, Crockett 2, Dimmit 7, Duval 2, Frio 7, Jim Hogg 1, Kinney 3, La Salle 2, Llano 1, Maverick 4, Medina 7, Starr 2, Uvalde 1, Val Verde 5, Webb 9, Willacy 2, Wilson 1, Zapata 1, Zavala 3; ARIZONA - Maricopa 2, Yuma 1; CALIFORNIA - Imperial 1, Riverside 1. Sterile screw-worm flies released: Texas 59,608,000; Arizona 1,900,000; California 500,000; Mexico 102,940,000. (Anim. Health Div.).

CATTLE LICE - ALABAMA - Many beef cattle showing earlier and light symptoms. Some neck and shoulder rubbing over small underbrush and fenceposts in some smaller, undeveloped herds. (Teague et al.). CALIFORNIA - Haematopinus eurysternus (short-nosed cattle louse) outbreak unusually severe on dairy cattle in several areas at Modesto, Stanislaus County. Heavy on tails and upper udder areas. Cattle responding to treatment. (Cal. Coop. Rpt.).

NORTHERN FOWL MITE (Ornithonyssus sylviarum) - ALABAMA - Heavy buildup in cage laying operation at Hayneville, Lowndes County; controls difficult. (Mathews).

BROWN RECLUSE SPIDER (Loxosceles reclusa) - MISSOURI - Collected in Bates, Benton, Camden, Cedar, Cole, Cooper, Dallas, Dade, Dunklin, Laclede, Lawrence, Miller, Morgan, Pemiscot, Pulaski, St. Clair, and Stone Counties for new county records. Collected by J.L. Huggans, L.R. Hanning, F.G. Jones, L.H. Barrows, and J.E. Francka in 1968. (Munson).

STORED PRODUCTS

POTATO TUBERWORM (Phthorimaea operculella) - MARYLAND - Heavy in stored potatoes at 3 locations in Charles County. (U. Md., Ent. Dept.). VIRGINIA - Larvae severe in about 20 bushels of potatoes in home garden in Spotsylvania County. Determined by W.A. Allen. (Kash, Nov. 26).

MEDITERRANEAN FLOUR MOTH (Anagasta kuehniella) - OREGON - Adults and larvae numerous in flour mills at Portland, Multnomah County. Adults and larvae of Tribolium confusum (confused flour beetle) and larvae of Attagenus piceus (black carpet beetle) heavy in A. kuehniella webblings. (Larson, Westcott).

ALMOND MOTH (Cadra cautella) - CALIFORNIA - Larvae and adults heavy in garlic in warehouse at San Juan Bautista, San Benito County. (Cal. Coop. Rpt.).

CADELLE (Tenebroides mauritanicus) - OREGON - Heavy in waste bin in feed mill at Portland, Multnomah County. Sitophilus granarius (granary weevil) extremely numerous in bin with fewer Tribolium confusum (confused flour beetle) and Tenebrio molitor (yellow mealworm). (Larson, Westcott).

LESSER GRAIN BORER (Rhyzopertha dominica) - OREGON - Adults up to 8 per kernel in corn in feed mill at Portland, Multnomah County. (Larson, Westcott).

FEDERAL AND STATE PLANT PROTECTION PROGRAMS

PINK BOLLWORM (Pectinophora gossypiella) - CALIFORNIA - Harvest being rapidly completed after delay from recent rains. About 70 percent of crop harvested and good percentage of fields shredded and disked. No pink bollworm detected during season in San Joaquin Valley; released 9,174,379 sterile moths for season. Percent boll infestations by end of season averaged 15 in Imperial Valley, 20 in Palo Verde Valley, 40 in Coachella Valley, and 70 (high) in Borrego Valley. Unusually favorable growing conditions produced exceptionally good crop in spite of pink bollworm. Expect estimated 2.5 bales per acre. Good cultural practices of shredding, plowup, cleanup, irrigation plus host free period, and releasing of sterile moths were apparently beneficial. Outlook for 1969 depends on growers following recommended cultural controls. (Cal. Coop. Rpt.). ARIZONA - Larvae averaged 55 per lint cleaner in gins at Yuma, Yuma County. (Ariz. Coop. Sur.). NEW MEXICO - Medium to heavy during lint cleaner inspections in 2 Eddy County gins. (Judd). About 70 percent of larvae dead in green wet bolls in southern Dona Ana County. (Nielsen). OKLAHOMA - Positive in lint cleaner inspections during November in additional counties of Comanche, Harmon, Kiowa, Garvin, Stephens, Custer, and Hughes. (Okla. Coop. Sur.).

JAPANESE BEETLE (Popillia japonica) - VIRGINIA - Larvae medium in rose border in Prince Edward County. Determined by W.A. Allen. (Peery, Nov. 30).

LIGHT TRAP COLLECTIONS

MISSISSIPPI - Stoneville - 11/29-12/6, BL, 32-58°F., precip. 2.30 - Armyworm (Pseudaletia unipuncta) 6, black cutworm (Agrotis ipsilon) 11, fall armyworm (Spodoptera frugiperda) 2, granulate cutworm (Feltia subterranea) 6, yellow-striped armyworm (Prodenia ornithogalli) 1. TEXAS - Brownsville - 11/30-12/6, 2BL, 37-80°F., precip. 0.09 - Armyworm 23, black cutworm 13, cabbage looper (Trichoplusia ni) 3, fall armyworm 1, granulate cutworm 4, tobacco budworm (Heliothis virescens) 1, variegated cutworm (Peridroma saucia) 18, yellow-striped armyworm 1.

HAWAII INSECT REPORT

Turf, Pasture - A GRASS WEBWORM (Herpetogramma licarsisalis) continues moderate to heavy and spotty in various areas on Kikuyu grass, Bermuda grass, Henrys crab-grass, Pangola grass, carpetgrass, Hilo grass, and St. Augustine grass on Kauai, Oahu, Maui, and Hawaii; light in pastures on east Molokai. (Miyahira et al.).

General Vegetables - BEET ARMYWORM (Spodoptera exigua) and LEAF MINER FLIES (Liriomyza spp.) generally light in green onions at Waianae, Waimanalo, Koko Head, and Kahuku, Oahu. (Yamamoto, Sato). TARO LEAFHOPPER (Tarophagus proserpina) heavy and Cyrtorhinus fulvus (a predaceous capsid bug) adults very evident in taro patch at Waimea, Kauai. (Sugawa).

Fruits - LARGE MANGO TIP BORER (Bombotelia jocosatrix) larvae remain trace on mango foliage throughout Oahu. Light but spreading on Kauai; found as far west as Waimea. (Nakao, Sugawa). Larvae of a NOCTUID MOTH (Phlegetonia delatrix) severe on mountain-apple at Pukalani, Maui; damage extremely heavy to terminal leaves. (Miyahira).

Ornamentals and Others - BARNACLE SCALE (Ceroplastes cirripediformis) light on gold tree (Cybistax donnell-smithi) and dwarf pomegranate (Punica granatum var. nana) at Honolulu International Airport and on asystasia (Asystasia gangetica) and sourbush (Pluchea odorata) on Sand Island, Oahu. All are new host records. (Shiroma, Olson).

Forest, Shade Trees - Nymphs and adults of a PSYLLID (Psylla uncatoides) trace to light on acacia at Waimanalo, Kaneohe, and Honolulu (Nuuanu, Kalihi), Oahu; negative on albizzia at Honolulu. Generally light on Oahu since discovery in March 1966. (Funasaki).

Beneficial Insects - Parasitism of Herpetogramma licarsisalis (a grass webworm) by a MINUTE EGG PARASITE (Trichogramma semifumatum) averaged 75 percent on Mt. Hualalai, Hawaii Island, at 2,100-3,800 feet elevation; 86 percent at Hana, Maui; and 85 percent at Kaneohe and Kaaawa, Oahu, during November. Several larval parasites common in pastures. (Yoshioka et al.).

Miscellaneous Pests - Two live GIANT AFRICAN SNAIL (Achatina fulica) specimens collected at Kahaluu, North Kona, Hawaii Island, and one at Poipu, Kauai, during November. Poison bait applications and surveillance continuing. Recent heavy rains activated populations in weed areas on Maui and Oahu and caused movement into residences and farms. Baits necessary to protect crops in some areas. (Yoshioka et al.). A GRASSHOPPER (Oedaleus abruptus) adult found during spot check of known infested grassy areas at Hickam Air Force Base, Honolulu, Oahu, after 4 days of heavy rains. (Olson).

INSECT DETECTION

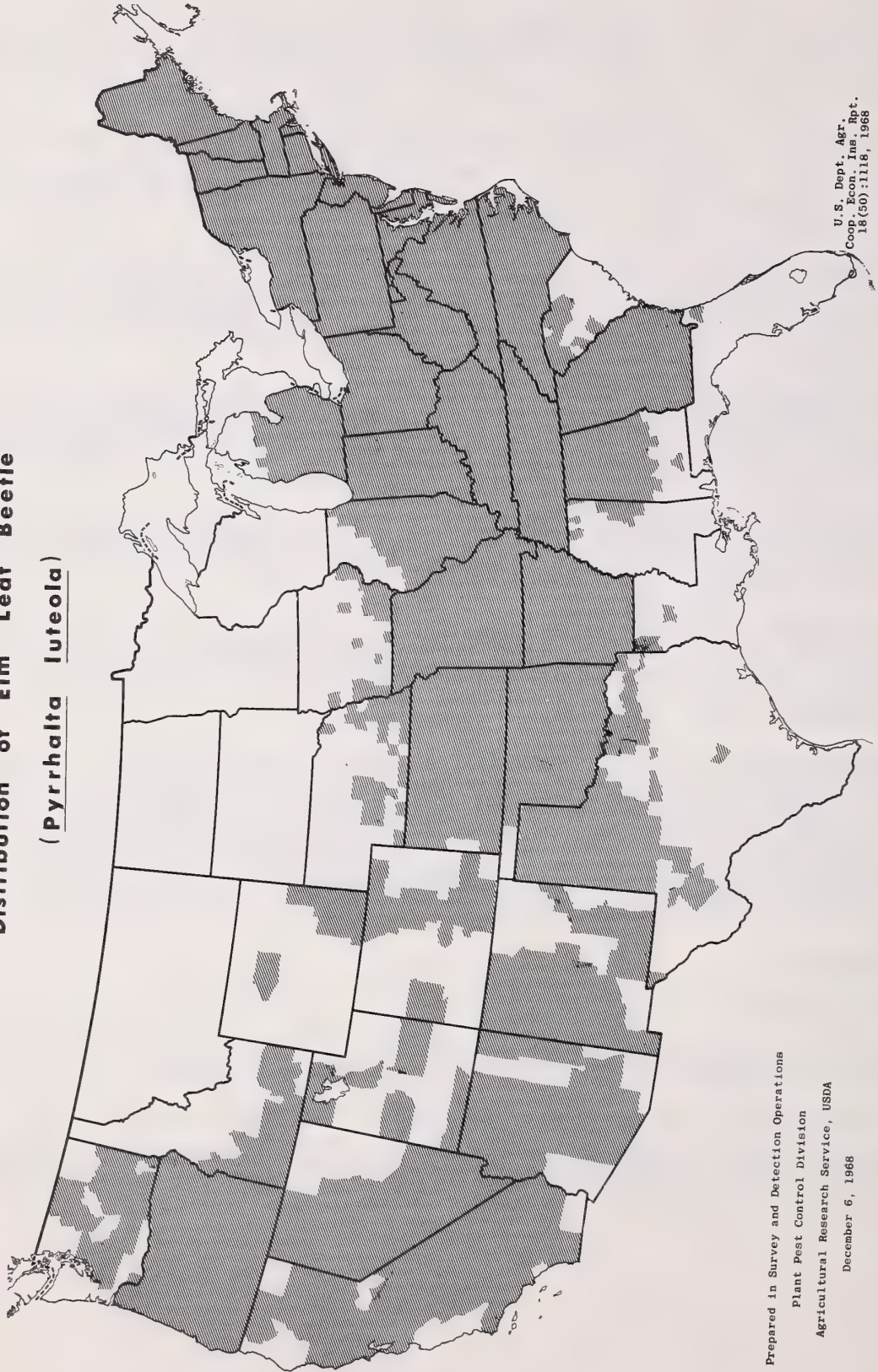
New County Records

GIANT HORNET (Vespa crabro germana) - INDIANA - Adult specimen from Scott County determined from State Entomologist's office collection. (Chandler, Nov. 29).

AN APHID (Pentalonia nigronervosa) - CALIFORNIA - Los Angeles County. (p. 1114).

BROWN RECLUSE SPIDER (Loxosceles reclusa) - MISSOURI - Bates, Benton, Camden, Cedar, Cole, Cooper, Dallas, Dade, Dunklin, Laclede, Lawrence, Miller, Morgan, Pemiscot, Pulaski, St. Clair, and Stone Counties. (p. 1115).

Distribution of Elm Leaf Beetle
(*Pyrhalta luteola*)



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Plant Pest Control Division
Agricultural Research Service, USDA
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IMPORTANT INSECTS AND SNAILS MOST FREQUENTLY INTERCEPTED AT
UNITED STATES PORTS OF ENTRY IN FISCAL YEAR 1967

This list was abstracted from the records compiled by the Plant Quarantine Division, ARS, USDA. These plant pests were intercepted at ports of entry from July 1, 1966, through June 30, 1967.

Only those pests intercepted 10 or more times during the year are included here. A total of 41,015 plant pests were submitted from ports of entry during the year. Of those identified during the year, 11,407 were considered of enough significance to be tabulated, as compared with 9,486 the previous year. This does not include the noneconomic or the incompletely determined pests, of which a total of 1,006 interceptions were indexed for the files but were not added to the figures in the summary. The complete interception list which includes all insects, mites, snails, bacteria, fungi, nematodes, and viruses of known or potential plant quarantine significance to the United States may be obtained from Plant Quarantine Division, Federal Center Building, Hyattsville, Maryland 20782.

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Achatina fulica</u> Bowdich (Achatinidae)	Aircraft Baggage Cargo Ship (hold and pallets) Soil with cargo	Guam, Hawaii, Thailand	16
<u>Acrolepia assectella</u> (Zell.) (Yponomeutidae)	<u>Allium fistulosum</u> (Welsh onion) <u>A. porrum</u> (leek) <u>A. sativum</u> (garlic)	Belgium, England, France, Germany, Italy, Japan, Netherlands, Spain	16
<u>Acutaspis umbonifera</u> (Newstead) (Diaspididae)	Bromeliad (plant) leaf Orchid (plant) leaf and stem	El Salvador, Colombia, Costa Rica, Guatemala Honduras, Mexico, Panama, Peru, Venezuela	21
<u>Adoretus sinicus</u> Burm. (Scarabaeidae)	Aircraft <u>Alpinia purpurata</u> (cut flowers) <u>Anthurium</u> sp. (flower) Baggage Cargo Flowers (mixed) Mail Passenger Plant material (tropical foliage) <u>Strelitzia reginae</u> (Queen bird-of-paradise flower)	Asia (country-?), Guam, Hawaii, Japan, Okinawa	30
<u>Aethus indicus</u> (Westw.) (Cydnidae)	Aircraft Cargo	Japan, Midway (?), Okinawa (?), Asia (country-?), Philippines	20
<u>Aleurocanthus woglumi</u> Ashby (Aleyrodidae)	<u>Citrus aurantifolia</u> (lime) leaf <u>C. reticulata</u> cv. (cultivar orange) leaf <u>C. sinensis</u> (sweet orange) leaf <u>Citrus</u> sp. (leaf)	Colombia, Mexico, Peru	22

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Anastrepha ludens</u> (Loew) (Tephritidae)	<u>Calocarpum sapota</u> (sapote) <u>Casimiroa edulis</u> (White sapote) <u>Citrus aurantifolia</u> (sweet lime) <u>C. aurantium</u> (sour orange) <u>C. limon</u> var. <u>ponderosa</u> (Ponderosa lemon) <u>C. medica</u> (citron) <u>C. paradisi</u> (grapefruit) <u>C. sinensis</u> (sweet orange) <u>Cydonia oblonga</u> (quince) <u>Diospyros kaki</u> (kaki persimmon) <u>Eriobotrya japonica</u> (loquat) <u>Malus sylvestris</u> (apple) <u>Prunus persica</u> (peach) <u>Psidium guajava</u> (guava) <u>Punica granatum</u> (pomegranate)	British Honduras, El Salvador, Guatemala, Mexico	306
<u>Anastrepha mombinpraeoptans</u> Sein. (Tephritidae)	<u>Mangifera indica</u> (mango) <u>Psidium guajava</u> (guava) <u>Spondias mombin</u> (yellow mombin) <u>Spondias purpurea</u> (purple mombin)	Brazil, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Puerto Rico, St. Kitts, unknown	318
<u>Anomala orientalis</u> Waterh. (Scarabaeidae)	Aircraft Cargo Ship	Asia (country-?), Japan, unknown	40
<u>Aonidiella messengeri</u> McK. (Diaspididae)	<u>Chamaedorea</u> sp. (palm) leaf Palm (leaf)	Japan	27
<u>Aspidiotus destructor</u> Sign. (Diaspididae)	<u>Cocos nucifera</u> (coconut) Cuttings - unidentified <u>Cycas</u> sp. (leaf) <u>Laurus nobilis</u> (Grecian laurel) leaf Leaf - unidentified <u>Musa paradisica</u> (plantain) leaf <u>Musa</u> sp. (banana) Orchid (plant) leaf Palm (leaf) <u>Terminalia catappa</u> (tropical almond)	Bahamas, Bora Bora, British Virgin Is. Dominican Republic, El Salvador, Haiti, Jamaica, Japan, Mexico, Philippines, Peru, Vietnam	26
<u>Asterobemisia avellanae</u> (Sign.) (Aleyrodidae)	<u>Rubus</u> sp. (leaf)	Europe (country-?) France	27
<u>Asterolecanium epidendri</u> (Bouche) (Asterolecaniidae)	<u>Bromeliad</u> (plant) leaf <u>Chamaedorea oblongata</u> (palm) Orchid: (<u>Brassavola nodosa</u> , <u>Broughtonia sanguinea</u> , <u>Broughtonia</u> sp., <u>Catasetum</u> sp., <u>Cattleya</u> sp., <u>Epidendrum atropurpureum</u> , <u>Epidendrum</u> sp., <u>Oncidium</u> sp., <u>Sobralia</u> sp., <u>Sophronitis grandifolia</u> , <u>Trichopila marginata</u>) Leaf of plant Plant - unidentified leaf	Bahamas, Brazil, Canal Zone, Costa Rica, Colombia, Ecuador, Guatemala, Honduras, Jamaica, Nicaragua, Mexico, Trinidad	40

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Aulacaspis tubercularis</u> Newst. (Diaspididae)	<u>Mangifera indica</u> (mango)	Colombia, El Salvador, Panama, Philippines, Tahiti, Trinidad	14
<u>Blapstinus punctulatus</u> Solier (Tenebrionidae)	<u>Cucumis melo</u> (melon)	Chile	69
<u>Brachycerus algius</u> (F.). (Curculionidae)	<u>Allium sativum</u> (garlic)	Italy	10
<u>Bruchus ervi</u> Froelich (Bruchidae)	<u>Lens culinaris</u> (lentil) seed	Greece, Israel, Italy, Lebanon, Rumania (?), Syria	13
<u>Bruchus lentis</u> Froelich (Bruchidae)	<u>Lens culinaris</u> (lentil) seed Stores (in storeroom)	Azores, France, Germany, Greece, Iran, Israel, Italy, Mexico (?), Pakistan, Portugal (?), Turkey, unknown	38
<u>Bruchus tristis</u> Boh. (Bruchidae)	<u>Lathyrus sativus</u> (grass peavine) seed <u>Psophocarpus tetragonolobus</u> (goa bean) <u>Vicia faba</u> (faba bean)	Italy	10
<u>Callosobruchus analis</u> (F.) (Bruchidae)	<u>Arachis hypogaea</u> (peanut) seed <u>Cicer arietinum</u> (gram chickpea) seed <u>Lens culinaris</u> (lentil) chickpea) seed <u>Oryza sativa</u> (rice) <u>Phaseolus aureus</u> (mung bean) <u>P. vulgaris</u> (kidney bean) <u>Phaseolus sp.</u> (bean) <u>Pisum sativum</u> (peas) dried Stores Seed - unidentified <u>Vigna sinensis</u> (cowpea) seed	India, Indonesia, Japan, Pakistan, Thailand, Unknown	16
<u>Ceratitidis capitata</u> (Wied.) (Tephritidae)	<u>Annona cherimola</u> (cherimoya) <u>Calophyllum inophyllum</u> (kamani) <u>Capsicum annuum</u> (redpepper) <u>Carica papaya</u> (papaya) <u>Citrus aurantifolia</u> (lime) <u>C. limon</u> (lemon) <u>C. paradisi</u> (grapefruit) <u>C. reticulata</u> cv. (cultivar orange) <u>C. sinensis</u> (sweet orange) <u>Citrus sp.</u> (fruit) <u>Coffea arabica</u> (Arabian coffee) berry <u>Cydonia oblonga</u> (quince) <u>Diospyros sp.</u> (persimmon) <u>Eriobotrya japonica</u> (loquat) <u>Eugenia malaccensis</u> (mountain apple) <u>Eugenia sp.</u> (fruit) <u>Ficus carica</u> (fig) Fruit - unidentified <u>Malus sylvestris</u> (apple)	Argentina, Azores, Brazil, Costa Rica, Cyprus, Europe (country-?), France, Greece, Hawaii, Israel, Italy, Jordan, Liberia, Malta, Peru, Portugal, South Africa (?), Sierra Leone, Spain, Tunisia, Unknown, Venezuela	200

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Ceratitidis capitata</u> (continued)	<u>Ochrosia elliptica</u> (ochrosia) <u>Opuntia</u> sp. (pricklypear) <u>Passiflora</u> sp. (passionfruit) <u>Persea americana</u> (American avocado) <u>Phoenix dactylifera</u> (date) <u>Prunus armeniaca</u> (apricot) <u>P. domestica</u> (plum) <u>P. persica</u> (peach) <u>Psidium guajava</u> (guava) <u>Punica granatum</u> (pomegranate) <u>Pyrus communis</u> (pear) <u>Terminalia catappa</u> (tropical almond) <u>Vitis</u> sp. (grape)		
<u>Ceroplastes rubens</u> Mask. (Coccidae)	<u>Alyxia olivaeformis</u> (maile) leaf <u>Anthurium andreanum</u> (flamingo anthurium) leaf <u>Anthurium</u> sp. (leaf) <u>Brassaia actinophylla</u> (umbrella tree) leaf Cuttings - unidentified <u>Eucalyptus</u> sp. (leaf) <u>Gardenia jasminoides</u> (gardenia) leaf	American Samoa, Hawaii	49
<u>Chilo suppressalis</u> (Wlk.) (Crambidae)	<u>Oryza sativa</u> (rice) stem Stores	Japan, Korea, Spain	27
<u>Coccus viridis</u> (Green) (Coccidae)	<u>Alpinia purpurata</u> (red ginger) <u>Alyxia olivaeformis</u> (maile) leaf <u>Coccolobis uvifera</u> (common seagrape) <u>Codiaeum variegatum</u> (croton) leaf <u>Coffea arabica</u> (Arabian coffee) leaf <u>Cordyline terminalis</u> (ti) leaf <u>Coriandrum sativum</u> (coriander) leaf <u>Gardenia jasminoides</u> (gardenia) leaf <u>Gerbera</u> sp. (gerbera) leaf <u>Gomphrena globosa</u> (globe amaranth) leaf <u>Mangifera indica</u> (mango) leaf <u>Murraya exotica</u> (jasminorange) leaf <u>Polyscias</u> sp. (panax) leaf	American Samoa, British Virgin Is., Costa Rica, Fiji, Guam, Hawaii, Philippines, Jamaica, Unknown	51

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Cochicella barbara</u> (L.) (<u>Helicellidae</u>)	<u>Brassica oleracea</u> var. <u>capitata</u> (cabbage) Cargo <u>Lactuca sativa</u> (lettuce) <u>Mentha</u> sp. (mint) Soil with plants: <u>Dianthus caryophyllus</u> , <u>Eriobotrya japonica</u> , and <u>Hibiscus</u> sp.	Algeria, Azores, Europe (country-?), Greece, Morocco, Italy, Portugal, Spain, Tunisia	25
<u>Conotelus mexicanus</u> Murray (<u>Nitidulidae</u>)	Aircraft <u>Chrysanthemum</u> sp. (cut flower) <u>Cordyline terminalis</u> (ti) leaf <u>Coriandrum sativum</u> (coriander) <u>Dianthus caryophyllus</u> (carnation) flower Flowers (mixed) <u>Lactuca sativa</u> (lettuce) <u>Plumeria acuminata</u> (plumeria) flowers <u>P. rubra</u> (red plumeria) flowers <u>Portulaca oleracea</u> (common purslane) <u>Raphanus sativus</u> (radish) <u>Selaginella</u> sp. (plant) <u>Vanda</u> sp. (orchid) flower <u>Zea mays</u> (corn)	Costa Rica, Hawaii, Mexico	90
<u>Conotrachelus aguacatae</u> Barber (<u>Curculionidae</u>)	<u>Persea americana</u> (American avocado) <u>P. americana</u> var. <u>drymifolia</u> (Mexican avocado)	Mexico	26
<u>Cryptoblabes gnidiella</u> (Mill.) (<u>Phycitidae</u>)	<u>Citrus sinensis</u> (sweet orange) <u>Eriobotrya japonica</u> (loquat) <u>Prunus nigra</u> (Canada plum) <u>Psidium guajava</u> (guava) <u>Punica granatum</u> (pomegranate) <u>Vitis</u> sp. (grape)	Europe (country-?), France (?), Greece, Israel, Italy, Malta, Portugal, Spain, United Arab Republic, Unknown	41
<u>Cryptorhynchus mangiferae</u> (F.) (<u>Curculionidae</u>)	Baggage <u>Mangifera indica</u> (mango) seed	Hawaii, India, Philippines	158
<u>Cryptotermes brevis</u> (Walker) (<u>Kalotermitidae</u>)	Baggage (cardboard and wood) Mail Wood crates	Bahamas, Cuba, Hawaii, Unknown	21

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Curculio elephas</u> (Gyll.) (Curculionidae)	<u>Castanea sativa</u> (European chestnut) <u>Castanea sp.</u> (chestnut)	Azores, Czechoslovakia, France, Greece, Germany, Italy, Poland, Portugal, Spain, Yugoslavia	127
<u>Curculio nucum</u> L. (Curculionidae)	<u>Castanea sp.</u> (chestnut) <u>Corylus avellana</u> (European filbert) <u>Corylus sp.</u> (filbert)	Czechoslovakia, Greece, Italy, Rumania (?), Spain, Yugoslavia	13
<u>Cylas formicarius elegantulus</u> (Sum.) (Curculionidae)	Baggage <u>Ipomoea batatas</u> (sweetpotato) Mail	Cuba, Dominican Republic, Ecuador, Haiti, Hawaii, Honduras, Jamaica, Mexico, Puerto Rico, Virgin Islands	67
<u>Dacus dorsalis</u> Hend. (Tephritidae)	<u>Aleurites sp.</u> (fruit) <u>Averrhoa carambola</u> (star fruit) <u>Carica papaya</u> (papaya) Cargo (papaya containers) <u>Citrus aurantifolia</u> (sweet lime) <u>Litchi chinensis</u> (lychee) <u>Mangifera indica</u> (mango) <u>Musa sp.</u> (banana) <u>Passiflora sp.</u> (passionfruit) <u>Persea americana</u> (American avocado) <u>Psidium guajava</u> (guava) <u>Terminalia catappa</u> (tropical almond)	Hawaii, Japan	40
<u>Dacus oleae</u> (Gmel.) (Tephritidae)	<u>Olea europaea</u> (common olive)	Cyprus, Greece, Hungary, Iran, Italy, Jordan, Lebanon, Unknown	86
<u>Dialeurodes kirkaldyi</u> (Kot.) (Aleyrodidae)	<u>Gardenia jasminoides</u> (cut flower) leaf <u>Gardenia taitensis</u> (cut flower) leaf <u>Jasminum sambac</u> (jasmine plant) leaf Plant - unidentified leaf <u>Plumeria sp.</u> (cutting) leaf <u>Thunbergia sp.</u> (clockvine)	Hawaii, Hong Kong, Japan, Philippines, Turkey	14
<u>Diocalandra taitensis</u> (Guer.) (Curculionidae)	Baggage <u>Cocos nucifera</u> (coconut)	Hawaii	15
<u>Dysmicoccus neobrevipes</u> Beardsley (Pseudococcidae)	<u>Alpinia purpurata</u> (red ginger) flower <u>Annona squamosa</u> (sugar- apple) <u>Annona sp.</u> (fruit) <u>Artocarpus altilis</u> (breadfruit) <u>Carica papaya</u> (papaya) <u>Diospyros kaki</u> (kaki persimmon) <u>Heliconia sp.</u> (plant) <u>Musa sp.</u> (banana)	Asia (country-?), Canal Zone, Haiti, Hawaii, Japan, Philippines	12

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Dyspessa ulula</u> (Bkh.) (Cossidae)	<u>Allium sativum</u> (garlic)	Italy, Portugal, Spain	21
<u>Euscepes postfasciatus</u> (Fairm.) (Curculionidae)	<u>Brassica rapa</u> (turnip) <u>Ipomoea batatas</u> (sweetpotato) Mail <u>Physalis sp.</u> (husk tomato) <u>Zingiber officinale</u> (ginger root)	Antigua, Brazil, British V. I., British West Indies, Hawaii, Mexico, Puerto Rico, Surinam, Trinidad, St. Vincent	14
<u>Filippia viburni</u> (Sign.) (Coccidae)	<u>Hedera helix</u> (English ivy) leaf	England, Unknown	13
<u>Frankliniella formosae</u> Moulton (Thripidae)	<u>Chrysanthemum sp.</u> (plant in soil) <u>Diospyros kaki</u> (kaki persimmon) Flowers: (<u>Callistephus chinensis</u> , <u>Chrysanthemum sp.</u> , <u>Dianthus caryophyllus</u> , <u>Gardenia sp.</u> , <u>Gladiolus sp.</u> , <u>Rosa sp.</u> , and unidentified flowers) cut <u>Hedychium coronarium</u> (common gingerlily) leaf	Asia (country-?), Japan, Korea, Yugoslavia	141
<u>Frankliniella intonsa</u> (Trybom) (Thripidae)	Flowers: (<u>Aster sp.</u> , <u>Callistephus chinensis</u> , <u>Calluna vulgaris</u> , <u>Chrysanthemum sp.</u> , <u>Dahlia sp.</u> , <u>Dianthus caryophyllus</u> , <u>Gladiolus sp.</u> , <u>Lathyrus odoratus</u> , <u>Lavandula sp.</u> , <u>Paeonia sp.</u> , <u>Rosa sp.</u> , and unidentified flowers) cut	Denmark, England, Europe (country-?), France, Germany, Hungary, Italy, Netherlands, Poland, Sweden, Switzerland, Unknown	18
<u>Furcaspis oceanica</u> Ldgr. (Diaspididae)	<u>Cocos nucifera</u> (coconut)	Guam, Kwajalein, Philippines, Unknown	48
<u>Helicella caperata</u> (Montagu) (Helicellidae)	<u>Apium graveolens var. dulce</u> (celery) Cargo <u>Cynara cardunculus</u> (cardoon) <u>Cynara scolymus</u> (artichoke) Debris <u>Petroselinum crispum var. latifolium</u> (parsley) <u>Pisum sativum</u> (dried peas) Plant - unidentified <u>Sesamum indicum</u> (sesame) seed Stores	France, Greece (?), Italy, Libya, Turkey, Spain, Unknown	24
<u>Helicella cretica</u> (Fer.) (Helicellidae)	<u>Allium porrum</u> (leek) Cargo Stores	Crete, Greece, Italy, Turkey	14
<u>Helicella derbentina</u> (Andrz.) (Helicellidae)	Cargo	Turkey	14

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Helicella itala</u> (L.) (<u>Helicellidae</u>)	Baggage <u>Brassica oleracea</u> var. <u>botrytis</u> (cauliflower) Cargo <u>Lavendula</u> sp. (plant)	France, Italy	11
<u>Helicella maritima</u> (Drap.) (<u>Helicellidae</u>)	<u>Allium sativum</u> (garlic) Baggage <u>Brassica chinensis</u> (Chinese cabbage) <u>Brassica oleracea</u> var. <u>capitata</u> (cabbage) Cargo Cargo hold <u>Lactuca sativa</u> (lettuce) <u>Railroad car</u> Stores	Crete, Greece, Italy, Spain, Turkey, Yugoslavia	12
<u>Helicina zephyrina</u> Duclos (<u>Helicinidae</u>)	Bromeliad (plant) <u>Chamaedorea elegans</u> (palm) leaf <u>Chamaedorea</u> sp. (palm) leaf Orchid (plant) Palm (leaf)	Mexico	19
<u>Helix aperta</u> Born (<u>Helicidae</u>)	Baggage <u>Brassica oleracea</u> var. <u>capitata</u> (cabbage) Cargo <u>Daucus carota</u> var. <u>sativa</u> (garden carrot) Mail Railroad car Soil Stores	Greece, Europe (country-?), Italy, Libya, Spain	19
<u>Helix aspersa</u> Muller (<u>Helicidae</u>)	Automobile Baggage Beta sp. (beet) <u>Brassica oleracea</u> var. <u>botrytis</u> (cauliflower) <u>B. oleracea</u> var. <u>capitata</u> (cabbage) Cargo <u>Citrus sinensis</u> (sweet orange) <u>Lactuca sativa</u> (lettuce) <u>Lilium longiflorum</u> (Easter lily) cut flowers Orchid (plant) <u>Pelargonium</u> sp. (geranium) cutting Plant - unidentified Soil Stores	Algeria, Azores, Belgium, Europe (country-?), Costa Rica, France, Greece, Israel, Italy, Mexico, Peru, Portugal, Spain, Turkey, United Kingdom, Unknown	35

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Heterobostrychus aequalis</u> (Waterh.) (Bostrichidae)	Aircraft Cargo Debris (in ship's hold) Quarters (of ship) Packing material Wood	Asia (country-?), India, Japan, Okinawa, Philippines, Thailand, Vietnam, West Pacific, Unknown	40
<u>Homalodisca ichthyocephala</u> (Signoret) (Cicadellidae)	<u>Cucumis melo</u> var. cantalupensis (cantaloup) Railroad car	Mexico	14
<u>Hypothenemus hampei</u> (Ferr.) (Scolytidae)	<u>Coffea arabica</u> (Arabian coffee) seed <u>C. canephora</u> (robust coffee) seed <u>Coffea</u> sp. (coffee) bean	Africa, Angola, Brazil, Cameroon, Ethiopia, Guinea, India, Indonesia, Ivory Coast, Kenya, Liberia, Libya, Mexico, Nigeria, Sudan, Yemen, Unknown	68
<u>Laspeyresia splendana</u> (Hbn.) (Olethreutidae)	<u>Castanea sativa</u> (European chestnut) seed <u>Castanea</u> sp. (chestnut) seed <u>Quercus</u> sp. (oak) seed	Austria, Azores, Europe, France, Germany, Greece, Hungary, Italy, Portugal, Spain	88
<u>Laspeyresia strobilella</u> (L.) (Olethreutidae)	<u>Abies</u> sp. (fir) cone <u>Picea</u> sp. (spruce) cone <u>Pinus</u> sp. (pine) cone	Austria, Denmark, Europe, Germany, Italy, Sweden	20
<u>Lepidosaphes conchiformioides</u> Borchs. (Diaspididae)	<u>Diospyros kaki</u> (Kaki persimmon) <u>Diospyros</u> sp. (persimmon)	Japan, Formosa	42
<u>Lepidosaphes esakii</u> Tak. (Diaspididae)	<u>Cocos nucifera</u> (coconut)	Eniwetok, Kwajalein	18
<u>Lepidosaphes tobionis</u> (Kuw.) (Diaspididae)	<u>Codiaeum variegatum</u> (leafcrotton) leaf <u>Codiaeum</u> sp. (croton) leaf	Hawaii, Philippines, Puerto Rico	15
<u>Liogenys macropelma</u> Bates (Scarabaeidae)	Aircraft	Brazil, Canal Zone, El Salvador, Panama, Unknown	57
<u>Mamestra brassicae</u> (L.) (Noctuidae)	Aircraft <u>Apium graveolens</u> var. dulce (celery) Baggage <u>Brassica chinensis</u> (Chinese cabbage) <u>B. oleracea</u> var. <u>botrytis</u> (cauliflower) <u>B. oleracea</u> var. <u>capitata</u> (cabbage) <u>Brassica</u> sp. (leaf) <u>Capsicum annuum</u> (pepper) <u>Cichorium endiva</u> (endive) leaf Flowers (mixed) <u>Pelargonium</u> sp. (geranium) leaf	Asia (country-?), Belgium, England, France, Germany, Israel, Italy, Japan, Netherlands	42

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Maruca testulalis</u> (Geyer) (Pyraustidae)	Baggage <u>Canavalia cathartica</u> (mauna loa) flower <u>Cajanus cajan</u> (pigeonpea) pod Flowers (various) Fruit (various) Mail <u>Phaseolus lunatus</u> (lima beans) <u>P. vulgaris</u> cv. (string bean) pod <u>Phaseolus</u> sp. (bean) <u>Sesbania grandiflora</u> (Agati Sesbania) cut flower <u>Vigna sesquipedalis</u> (yardlong cowpea) pod	Dominican Republic, Ecuador, Hawaii, Jamaica, Panama, Philippines, Puerto Rico, Trinidad	45
<u>Matsumuraeses phaseoli</u> (Mats.) (Olethreutidae)	<u>Canavalia ensiformis</u> (horse bean) <u>Phaseolus vulgaris</u> (kidney bean) <u>P. vulgaris</u> cv. (string bean) <u>Phaseolus</u> sp. (bean) pod <u>Vicia faba</u> (faba bean) pod	Japan	15
<u>Melanaspis aliena</u> (Newst.) (Diaspididae)	<u>Cattleya guatemalensis</u> (orchid plant) leaf <u>C. skinneri</u> (orchid plant) leaf <u>Cattleya</u> sp. (orchid plant) leaf <u>Oncidium</u> sp. (orchid plant) leaf Orchid (plant) leaf	El Salvador, Canal Zone, Costa Rica, Guatemala, Panama, Honduras	12
<u>Minthea rugicollis</u> (Walker) (Lyctidae)	<u>Bambusa</u> sp. (bamboo) Herbs Wood - unidentified	Hong Kong, India, Japan, Tanzania, Vietnam	12
<u>Monacha carthusiana</u> (Muller) (Helicellidae)	<u>Brassica oleracea</u> var. <u>botrytis</u> (cauliflower) Cargo <u>Lycopersicon esculentum</u> (tomato)	France, Italy, Spain, Turkey	11
<u>Morganella longispina</u> (Morg.) (Diaspididae)	<u>Citrus grandis</u> (pummelo) <u>C. paradisi</u> (grapefruit) <u>C. reticulata</u> cv. (cultivar orange) <u>C. sinensis</u> (sweet orange) <u>Citrus</u> sp. (peel) <u>Nerium oleander</u> (oleander) stem	American Samoa, Bahamas, Brazil, Hawaii, Hong Kong, Japan, Tahiti	24

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Mycetaspis personata</u> (Comstock) (Diaspididae)	<u>Citrus aurantifolia</u> (lime) <u>C. paradisi</u> (grapefruit) <u>C. sinensis</u> (sweet orange) <u>Eucalyptus</u> sp. (leaf) <u>Persea americana</u> (American avocado) <u>Pimenta dioica</u> (allspice) <u>P. racemosa</u> (bayrumtree) <u>Yucca</u> sp. (plant)	Brazil, British West Indies, Columbia, France, Grenada, Guatemala, Mexico, South Africa, Unknown	20
<u>Neoleucinodes elegantalis</u> (Guen.) (Pyraustidae)	<u>Capsicum annuum</u> (pepper) <u>Lycopersicon esculentum</u> (tomato) Plant - unidentified <u>Solanum integrifolium</u> (Ethiopian eggplant) <u>S. melongena</u> (eggplant) <u>S. quitoense</u> ("naranjilla")	Brazil, Columbia, Ecuador, France (?), Panama, Puerto Rico, Venezuela	12
<u>Nephotettix impicticeps</u> Ishihara (Cicadellidae)	Aircraft Cargo	Asia (country-?), India, Japan, Midway, Thailand	18
<u>Nilaparvata lugens</u> (Stal) (Delphacidae)	Aircraft	Asia (country-?), Unknown	14
<u>Orchidophilus aterrimus</u> (Waterh.) (Curculionidae)	<u>Dendrobium</u> sp. (orchid) cut flower Flowers (mixed) Mail Orchid (cut flower) <u>Vanda</u> sp. (orchid) cut flowers and plants	Hawaii	32
<u>Otala vermiculata</u> (Muller) (Helicidae)	Automobile Baggage <u>Brassica oleracea</u> var. <u>botrytis</u> (cauliflower) Cargo Railroad car Ship (in hold) Soil <u>Solanum tuberosum</u> (potato) Stores	France, Greece, Israel, Italy, Poland (?), Turkey, Yugoslavia, Unknown	39
<u>Pagiocerus frontalis</u> (F.) (Scolytidae)	<u>Ananas comosus</u> (pineapple) <u>Zea mays</u> (dry corn) seed	Colombia, Costa Rica, Ecuador, Mexico, Peru	30
<u>Palmicultor palmarum</u> (Ehrh.) (Pseudococcidae)	<u>Cocos nucifera</u> (coconut) leaf <u>Coffea arabica</u> (Arabian coffee) leaf	Hawaii, Kwajalein, Mariana Islands	19

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Palpita unionalis</u> (Hbn.) (Pyraustidae)	Flowers (mixed) <u>Jasminum sambac</u> (jasmine) flowers	Okinawa, Thailand	15
<u>Parlatoria cinerea</u> Hadden (Diaspididae)	<u>Citrus aurantifolia</u> (lime) <u>C. grandis</u> (pummelo) <u>C. limon</u> (lemon) <u>C. medica</u> (citron) <u>C. paradisi</u> (grapefruit) <u>C. reticulata</u> cv. (cultivar orange) <u>C. sinensis</u> (sweet orange)	Argentina, Brazil, Europe (country-?), France, Formosa, Guatemala, Israel, Japan, Mexico, South Africa, Spain, Tahiti, Trinidad, Unknown	76
<u>Parlatoria zizyphus</u> (Lucas) (Diaspididae)	<u>Citrus aurantifolia</u> (lime) <u>C. aurantium</u> (sour orange) <u>C. grandis</u> (pummelo) <u>C. limon</u> (lemon) <u>C. mitis</u> (calamondin orange) <u>C. paradisi</u> (grapefruit) <u>C. reticulata</u> cv. (cultivar orange) <u>C. sinensis</u> (sweet orange) <u>Citrus</u> sp. (dried peel and leaves) <u>Fortunella japonica</u> (kumquat) Leaves - unidentified	Argentina, China, Dominican Republic, Egypt, Europe (country-?), Formosa, France, Greece, Guiana, Haiti, Hawaii, Hong Kong, Indonesia, Iran, Italy, Jamaica, Japan, Malta, Panama (?), Hawaii, Spain, Tahiti, Thailand, United Arab Republic, Vietnam, Yugoslavia, Unknown	207
<u>Pectinophora gossypiella</u> (Saund.) (Gelechiidae)	Cargo Fruit - unidentified <u>Gossypium herbaceum</u> (levant cotton) Seed <u>Gossypium</u> sp. (cotton) <u>Hibiscus esculentus</u> (okra) <u>H. mutabilis</u> (cotton rose hibiscus)	Antigua, British V.I., British W. Indies, Dominican Republic, Greece, Hawaii, Haiti, Italy, Jamaica, Rhodesia, Mexico, Pakistan, St. Martin, Trinidad, West Indies, Venezuela, Virgin Is.	104
<u>Pentalonia nigronervosa</u> (Coq.) (Aphididae)	<u>Alpinia purpurata</u> (red ginger) flower <u>Phaeomeria magnifica</u> (torch ginger) leaf and stem <u>Plumeria</u> sp. (cut flower)	Guam, Hawaii, Jamaica, Philippines	66
<u>Pheidole megacephala</u> (Fabricius) (Formicidae)	<u>Ananas comosus</u> (pineapple) Baggage Bromeliad (plant) Cargo <u>Coffea arabica</u> (Arabian coffee) <u>Cibotium</u> sp. (fern) Flowers (mixed) <u>Garcinia mangostana</u> (mangosteen) <u>Hylocereus undatus</u> (nightblooming-cereus) flower Orchid (plant) <u>Oryza sativa</u> (rice straw) <u>Ricinus communis</u> (castorbean) pod Plants - various Wood (log) - unidentified	Beef Island, Cuba, Dominican Republic, Hawaii, Honduras, Jamaica, Japan, New Guinea, Panama, Thailand, Vietnam	26

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Phlyctinus callosus</u> Boh. (Curculionidae)	<u>Vitis</u> sp. (grape)	South Africa	28
<u>Pieris brassicae</u> (L.) (Pieridae)	Aircraft <u>Brassica oleracea</u> var. <u>botrytis</u> (cauliflower) <u>B. oleracea</u> var. <u>capitata</u> (cabbage) Cargo	Denmark, France, Italy, Pakistan, Spain, Turkey	10
<u>Pityogenes chalcographus</u> (L.) (Scolytidae)	<u>Pinus</u> sp. (pine) bark and wood Wood - unidentified	Denmark, Europe (country-?), Germany, Netherlands, Norway, Poland, Sweden	23
<u>Planococcus lilacinus</u> (Ckll.) (Pseudococcidae)	<u>Alpinia purpurata</u> (red ginger) flowers <u>Annona squamosa</u> (sugar- apple) <u>Diospyros</u> sp. (persimmon) <u>Garcinia mangostana</u> (mangosteen) <u>Lansium domesticum</u> (lansat) <u>Nephelium lappaceum</u> (rambutan)	Asia (country-?), Formosa, Japan, Philippines, Vietnam, West Pacific	16
<u>Popillia japonica</u> Newman (Scarabaeidae)	Aircraft Cargo Quarters (of ship)	Asia (country-?), Japan	17
<u>Popillia lewisi</u> Arrow (Scarabaeidae)	Aircraft Baggage Cargo	Asia (country-?), Japan, Okinawa	25
<u>Prays oleella</u> (Fab.) (Yponomeutidae)	<u>Olea europaea</u> (olive)	Greece, Italy, Lebanon	10
<u>Pseudaonidia trilobitiformis</u> (Green) (Diaspididae)	<u>Citrus aurantifolia</u> (lime) <u>C. grandis</u> (pummelo) <u>C. limon</u> (lemon) <u>C. reticulata</u> cv. (cultivar orange) <u>C. sinensis</u> (sweet orange) <u>Mangifera indica</u> (mango) <u>Nerium oleander</u> (common oleander) <u>Spondias</u> sp. (mombin) <u>Theobroma cacao</u> (cocoa) leaf	Barbados, Brazil, China, Colombia, Formosa, Panama, Philippines, St. Lucia, Venezuela, Vietnam	16
<u>Rhagoletis cerasi</u> (L.) (Tephritidae)	<u>Prunus avium</u> (mazzard cherry) <u>P. cerasus</u> (sour cherry) <u>P. serotina</u> (black cherry) <u>Prunus</u> sp. (cherry)	Austria (?), Azores, Belgium, Czechoslovakia, England, Europe (country-?), France, Germany, Greece, Hungary, Israel, Italy, Luxembourg, Norway, Poland, Rumania, Spain, Switzerland, Turkey, Yugoslavia, Unknown	34

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Scotinophara lurida</u> (Burm.) (Pentatomidae)	Aircraft	Asia (country-?), Japan, Okinawa, Thailand	10
<u>Silba virescens</u> Macquart (Lonchaeidae)	<u>Ficus carica</u> (fig)	France, Italy, Spain	12
<u>Sinoxylon conigerum</u> Gerst. (Bostrichidae)	Aircraft Baggage <u>Bambusa</u> sp. (bamboo) Wood (crates)	Ceylon, Hawaii, India, Vietnam, West Pacific, Unknown	28
<u>Spodoptera litura</u> (F.) (Noctuidae)	Aircraft Cargo	Asia (country-?), Guam, Japan, Midway, Okinawa, Philippines, Vietnam, W. Pacific	39
<u>Spodoptera mauritia acronyctoides</u> (Guen.) (Noctuidae)	Aircraft Cargo	Asia (country-?), Japan, Midway, Wake Island, Unknown	21
<u>Spodoptera pecten</u> Guen. (Noctuidae)	Aircraft	Asia (country-?), Japan (?), Midway, Orient, Unknown	13
<u>Stenoma catenifer</u> Wlsm. (Stenomidae)	<u>Persea americana</u> (American avocado) <u>P. americana</u> var. <u>drymifolia</u> (Mexican avocado) <u>Persea</u> sp. (avocado)	Canal Zone, Colombia, Dominican Republic, Guatemala, Ecuador, El Salvador, Mexico, Panama, Peru, Venezuela	69
<u>Symmetaischema capisicum</u> (B. & P.) (Gelechiidae)	<u>Cajanus cajan</u> (pigeonpea) <u>Capsicum annuum</u> (pepper)	Bolivia, Dominican Republic, Guatemala, Mexico, Nicaragua, Peru	23
<u>Taeniothrips atratus</u> (Haliday) (Thripidae)	<u>Cucurbita</u> sp. (squash) Flowers: (<u>Calluna vulgaris</u> , <u>Delphinium</u> sp., <u>Dianthus caryophyllus</u> , <u>Gladiolus</u> sp., <u>Lathyrus odoratus</u> , <u>Lavandula</u> sp., <u>Ornithogalum thyrsoides</u> , <u>Rosa</u> sp., and mixed cut flowers) Nursery stock <u>Pimpinella anisum</u> (anise) Stores	Canada, Denmark, England, Europe (country-?), Finland, Germany, Ireland, Italy, Netherlands, Poland, Scotland, Unknown	35
<u>Taeniothrips hawaiiensis</u> (Morgan) (Thripidae)	Flowers: (<u>Canavalia cathartica</u> , <u>Cattleya</u> sp., <u>Chrysanthemum</u> sp., <u>Dianthus caryophyllus</u> , <u>Fagraea berteriana</u> , <u>Gardenia jasminoides</u> , <u>Jasminum sambac</u> , <u>Narcissus</u> sp., <u>Plumeria acuminata</u> , <u>P. rubra</u> , <u>Plumeria</u> sp., <u>Polianthes tuberosa</u> , <u>Rosa</u> sp., and mixed cut flowers)	Asia (country-?), Guam, Japan, Hawaii	203

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Tenuipalus japonicus</u> Nishio (Tenuipalpidae)	<u>Diospyros kaki</u> (kaki persimmon)	Japan	12
<u>Tetranychus viennensis</u> Zacher (Tetranychidae)	<u>Malus sylvestris</u> (apple)	Denmark, Iceland, Japan, Hungary, Korea, Philippines, Russia, Yugoslavia, Unknown	93
<u>Theba pisana</u> (Muller) (Helicidae)	<u>Apium graveolens</u> var. dulce (celery) Baggage <u>Brassica oleracea</u> var. capitata (cabbage) Cargo <u>Citrus</u> sp. (leaf of branch) <u>Daucus carota</u> var. sativa (carrot) <u>Lactuca sativa</u> (lettuce) <u>Lycopersicon esculentum</u> (tomato) <u>Mimosa</u> sp. (plant) <u>Petroselinum crispum</u> var. latifolium (parsley) <u>Statice</u> sp. (cut flowers) Stores <u>Vicia faba</u> (faba bean) <u>Vigna</u> sp. (cowpea)	France, Europe (country-?), Germany, Greece, Israel, Italy, Libya, Morocco, Portugal, Spain, Turkey, Yugoslavia (?), Unknown	59
<u>Thrips major</u> Uzel (Thripidae)	Flowers: (<u>Chrysanthemum</u> sp., <u>Dianthus caryophyllus</u> , <u>Erica</u> sp., <u>Lavandula</u> sp., <u>Rosa</u> sp., and mixed cut flowers)	Denmark, England, Europe (country-?), France, Scotland, Sweden	14
<u>Trogoderma granarium</u> Everts (Dermestidae)	<u>Acacia senegal</u> (gum arabic and gum hashabi) <u>Acacia</u> sp. (gum talha) <u>Anethum graveolens</u> (dill) seed <u>Anogeissus latifolia</u> (gum ghatti) <u>Apium graveolens</u> var. dulce (celery) seed <u>Arachis hypogaea</u> (peanuts) Bagging: (Used burlap bagging and wrappers on cocoa beans, coriander, flax waste, pigeonpeas, rugs, sesame seed, and wool) Cargo: (At large with beeswax, cinnamon quills, canvas, cotton piece goods, gall nuts, goat skins, miscellaneous foodstuffs, plastic, sheep skins, steel beams, wooden crates, and wool)	Afghanistan, Africa (country-?), Belgium, Ceylon, Denmark, England, Formosa, Germany, Hong Kong, Lebanon, Netherlands, Malaysia, India, Indonesia, Iran, Iraq, Israel, Italy, Ivory Coast, Japan, Jordan, Kuwait, Nigeria, Pakistan, Sudan, Syria, United Arab Republic, West Africa (country-?), Senegal, Unknown	503

<u>Pest</u>	<u>Host</u>	<u>Country of Origin</u>	<u>Number of Interceptions</u>
<u>Trogoderma granarium</u> (continued)	Cargo hold: (At large with debris, and under rust and paint scales) <u>Cajanus cajan</u> (pigeonpea) seed <u>Cassia</u> sp. (senna) pod <u>Cephalaria</u> sp. (seed) <u>Cicer arietinum</u> (chickpea) seed <u>Citrus aurantifolia</u> (lime) dried peel <u>Coffea arabica</u> (Arabian coffee) <u>Coriandrum sativum</u> (coriander) seed <u>Cuminum cyminum</u> (cumin) seed <u>Cucumis</u> sp. (melon) seeds <u>Cyamopsis tetragonoloba</u> (guar gum) Debris (in hold and storeroom) <u>Foeniculum vulgare</u> (fennel) seed Grain (residue in hold) <u>Lens culinaris</u> (lentils) <u>Oryza sativa</u> (rice) seed <u>Piper nigrum</u> (black pepper) <u>Pisum sativum</u> (pea) <u>Pistacia</u> sp. (pistache) nuts Seeds (unidentified) <u>Sesamum indicum</u> (oriental sesame) seed <u>Sterculia urens</u> (gum karaya) Stores (storeroom with dry stores) <u>Terminalia catappa</u> (tropical almond) <u>Trigonella foenum-graecum</u> (fenugreek) <u>Triticum aestivum</u> (wheat)		
<u>Tryporyza incertulas</u> (Wlk.) (Schoenobiidae)	Aircraft	Asia (country-?), Japan, Midway, Okinawa, Wake Island, Unknown	30
<u>Unaspis yanonensis</u> (Kuw.) (Diaspididae)	<u>Citrus aurantifolia</u> (lime) <u>C. aurantium</u> (sour orange) <u>C. grandis</u> (pummelo) <u>C. limon</u> (lemon) <u>C. medica</u> (citron) <u>C. paradisi</u> (grapefruit) <u>C. reticulata</u> cv. (cultivar orange) <u>C. sinensis</u> (sweet orange) <u>Citrus</u> sp. (fruit)	Australia, Formosa, Hong Kong, Israel, Japan, Okinawa, Philippines, Ryukyu Islands (Kadena), Vietnam, Unknown	753
<u>Vinsonia stellifera</u> (Westw.) (Coccidae)	<u>Anthurium</u> sp. (leaf) <u>Brassavola cordata</u> (orchid) leaf <u>Broughtonia</u> sp. (orchid) leaf <u>Cattleya</u> sp. (orchid) leaf of plant <u>Cinnamomum</u> sp. (cinnamon) leaf <u>Citrus</u> sp. (leaf) <u>Ixora</u> sp. (leaf) <u>Ligustrum</u> sp. (privet) leaf <u>Mangifera indica</u> (mango) leaf <u>Oncidium</u> sp. (orchid) plant Orchid (plant) leaf <u>Phalaenopsis</u> sp. (orchid) plant	Am. Virgin Islands, Barbados, Canal Zone, Costa Rica, Dominican Republic, Grenada, Guatemala, Haiti, Honduras, Jamaica, Martinique, Nicaragua, Panama, Puerto Rico, Thailand, Trinidad, Venezuela	61

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